

Title (en)  
FLUORINE-CONTAINING POLYMER, FILM, FILM MANUFACTURING METHOD, AND ORGANIC OPTO-ELECTRONIC ELEMENT

Title (de)  
FLUORHALTIGES POLYMER, FILM, VERFAHREN ZUR HERSTELLUNG EINES FILMES UND ORGANISCHES OPTO-ELEKTRONISCHES ELEMENT

Title (fr)  
POLYMÈRE CONTENANT DU FLUOR, FILM, PROCÉDÉ DE FABRICATION DE FILM ET ÉLÉMENT OPTOÉLECTRONIQUE ORGANIQUE

Publication  
**EP 4112655 A1 20230104 (EN)**

Application  
**EP 21761065 A 20210224**

Priority  
• JP 2020030460 A 20200226  
• JP 2021006902 W 20210224

Abstract (en)  
A fluorinated polymer suitable for deposition is provided. A film containing such a fluorinated polymer as a material is provided. A method for producing a film, by which such a film can readily be produced, is provided. Further, an organic photoelectric element having such a film in its structure is provided. A fluorinated polymer which satisfies the following requirements (1) to (3): (1) the melting point is 200°C or higher, (2) the thermogravimetric loss rate when the temperature is increased at a temperature-increasing rate of 2°C/min under a pressure of  $1 \times 10^{-3}$  Pa, substantially reaches 100% at 400°C or lower, (3) when the temperature is increased at a temperature-increasing rate of 2°C/min under a pressure of  $1 \times 10^{-3}$  Pa, the temperature width from a temperature at which the thermogravimetric loss rate is 10% to a temperature at which it is 90%, is within 100°C.

IPC 8 full level  
**C08F 14/18** (2006.01); **C08L 27/12** (2006.01); **H01L 51/50** (2006.01); **H05B 33/10** (2006.01)

CPC (source: EP KR US)  
**C08F 8/14** (2013.01 - EP); **C08F 8/22** (2013.01 - EP); **C08F 214/26** (2013.01 - KR); **C08F 214/262** (2013.01 - EP KR US); **C08L 27/12** (2013.01 - EP); **C09D 127/22** (2013.01 - EP); **H05B 33/10** (2013.01 - EP KR); **H10K 71/164** (2023.02 - EP); **H10K 85/115** (2023.02 - US); **H10K 50/17** (2023.02 - EP KR); **H10K 50/858** (2023.02 - EP KR); **Y02E 10/549** (2013.01 - EP KR); **Y02P 70/50** (2015.11 - EP)

C-Set (source: EP)  
1. **C08F 214/262 + C08F 216/1408**  
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AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

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